



LB-1000 Comparison Microscope

Applications

LB-1000 is the ideal device for Public Security Bureaus, procuratorates, courts and their colleges to compare and identify the bullet, tool marks, fingerprints, seals, text, signatures, drawings, and bank notes. It also can be applied to electronic, biochemical, agriculture, archaeology, banking, Customs and industries or sectors who have the requirements to detect or identify objects.

Features

Can be used for Left or Right single view field observation, overlapping view field observation, segmentation and jointing view field observation.

With changeable objectives, right and left objectives can be adjusted to consistency.

Stage size: 100mm×100mm, Moving range: The transverse, longitudinal, vertical directions are 0-54mm, horizontal rotation 0° -360°, stage inclined to any direction of 0° - 45°.

Two stages can be adjusted horizontally at the same time, moving range: 0-54mm.

Coarse lifting range of 0 - 60mm.

Equipped with 12V/50W air-cooled lamps, large power LED lamps, light intensity is adjustable.

Polarizing attachment(optional), used to eliminate stray and glare light. (optional)

Coaxial illumination device(optional), used for observation of deep hole, small hole and smooth surface. (optional)

With C-mount video attachment, digital cameras can be used for synchronous observation, images and videos can be saved and analyzed.

With Photo attachment, Nikon or Olympus DSLR cameras can be used to take pictures.

Technical Specifications

Total Optical Magnification: 3.8×~115×(can be extended to 345×)

Viewing Head: Seidentopf Trinocular Head, Inclined at 45°, Interpupillary Distance 55-75mm

Eyepiece: Wide Field Eyepiece WF10×/ 22, diopter adjustment

Wide Field Eyepiece WF20×/ 12, diopter adjustment

Comparison Mode: Left or Right single view field observation, overlapping view field observation, segmentation and jointing view field observation

Objective: 0.8×, 1.25×, 2×, 3.2×, 4.8× changeable objective

Stage: Manually operate stage, moving range: X-54mm, Y-54mm, Z-54mm

Two stage horizontal moving range: 54mm, The coarse vertical lifting range: 60mm

Illumination: High power LED illumination, brightness and angel adjustable

Side illumination, 12V/50W air cooled reflecting lamps

Polarizing attachment (optional)

Coaxial illumination device (optional)

Photo Attachment: Photo attachment for DSLR digital camera(Nikon, Canon)

Video Adapter: C -mount for digital cameras

Eyepieces and Objective Parameters

Objective	Bridge	Magnification/FOV(mm)		Video Attachment	Photo Attachment	Working Distance (mm)
		10× Eyepiece	20× Eyepiece			
0.8×	1.2×	9.6×/φ28	19.2×/φ17	3×	2.5×	101
1.25×		15×/φ18	30×/φ11			
2×		24×/φ11	48×/φ7			
3.2×		36×/φ7	77×/φ4.5			
4.8×		58×/φ4.2	115×/φ2.3			

Note: With 0.8× objective, 10× eyepiece, the magnification=0.8×*1.2×*10×=9.6×

